

## WHAT IS CLAIMED IS:

- Pub 22*
1. An air intake silencer comprising:
    - at least one air inlet pipe comprising a first end, a second end, and an inlet passage therethrough;
    - at least one tuning tube comprising a first end, a second end, and a tuning passage therethrough, said tuning passage in fluid communication with said air inlet passage and extending for a length selected to cancel noise of at least a first selected frequency passing through said inlet pipe.
  2. An air intake silencer in accordance with Claim 1 wherein said air intake pipe is straight.
  3. An air intake silencer in accordance with Claim 1 wherein said tuning tube comprises a first segment in flow communication with said inlet passage, a second segment in flow communication with said inlet passage, and a third segment extending between said first segment and said second segment and in flow communication with said first segment and said second segment.
  4. An air intake silencer in accordance with Claim 3, said first segment and said second segment are separated from one another along an axis of said inlet pipe.
  5. An air intake silencer in accordance with Claim 1 wherein said tuning tube and said air inlet pipe have substantially equal diameters.
  6. An air intake silencer in accordance with Claim 1 further comprising at least another tuning tube, said at least another tuning tube in a wrap-around relationship with said at least one tuning tube.
  - Pub 237* 7. An air intake silencer in accordance with Claim 1 wherein said at least one air inlet tube and said at least one tuning tube are integrally formed.
  8. An air intake silencer in accordance with Claim 7 wherein said air inlet tube and said at least one tuning tube comprise an air intake manifold.

9. A cover for an outboard motor comprising:

a lower cover;

an upper cover configured for attachment to said lower cover; and

at least one air intake silencer attached to one of said upper cover and  
5 said lower cover and comprising:

at least one air inlet pipe comprising a first end, a second end,  
and an inlet passage therethrough;

at least one tuning tube comprising a first end, a second end,  
10 and a tuning passage therethrough, said tuning passage in fluid communication  
with said air inlet passage and extending for a length selected to cancel noise  
of at least a first selected frequency passing through said inlet pipe.

10. A motor cover in accordance with Claim 9 wherein said upper  
cover comprises a top wall, said at least one air intake silencer attached to said top  
wall.

11. A motor cover in accordance with Claim 9 wherein each of said  
upper cover and said lower cover comprises at least one side wall, said at least one air  
intake silencer attached to at least one side wall of said upper cover and said lower  
cover.

12. A motor cover in accordance with Claim 11 wherein said lower  
cover comprises a bottom wall, said at least one air intake silencer attached to said  
bottom wall.

13. A motor cover in accordance with Claim 9 wherein said at least  
one air intake silencer is integrally formed with said cover.

14. A motor cover in accordance with Claim 9 wherein said at least  
one air inlet pipe and said at least one tuning tube comprise an air intake manifold.

15. An air intake silencer in accordance with Claim 9 wherein said air  
intake pipe is straight.

16. An air intake silencer in accordance with Claim 15 wherein said tuning tube comprises a first segment in flow communication with said inlet passage, a second segment in flow communication with said inlet passage, and a third segment extending between said first segment and said second segment and in flow communication with said first segment and said second segment.

17. An air intake silencer in accordance with Claim 16, said first segment and said second segment are separated from one another along an axis of said inlet pipe.

18. An air intake silencer in accordance with Claim 9 wherein said tuning tube and said air inlet pipe have substantially equal diameters.

19. An air intake silencer in accordance with Claim 9 further comprising at least another tuning tube, said at least another tuning tube in a wrap-around relationship with said at least one tuning tube.

20. An air intake silencer in accordance with Claim 9 wherein said at least one air inlet tube and said at least one tuning tube are integrally formed.

21. An outboard motor engine comprising:

at least one air inlet for engine intake air; and

an air intake silencer coupled to said air inlet, said air intake silencer comprising at least one air inlet pipe coupled to said air inlet pipe and at least one tuning tube in flow communication with said air inlet pipe, said air inlet pipe and said tuning tube configured to cancel a portion of sound traveling through said air inlet pipe.

22. An outboard motor engine in accordance with Claim 21 wherein said air intake pipe is straight.

23. An outboard motor engine in accordance with Claim 21 wherein said tuning tube comprises a first segment in flow communication with inlet pipe passage, a second segment in flow communication with said inlet pipe passage, and a third segment extending between said first segment and said second segment and in flow communication with said first segment and with said second segment.

24. An outboard motor engine in accordance with Claim 23 wherein said first segment and said second segment are separated from one another along an axis of said inlet pipe.

25. An outboard motor engine in accordance with Claim 21 wherein said tuning tube and said air inlet pipe have substantially equal diameters.

26. An outboard motor engine in accordance with Claim 21 further comprising at least another tuning tube, said at least another tuning tube in a wrap-around relationship with said at least one tuning tube.

27. An outboard motor engine in accordance with Claim 21 wherein said at least one air inlet tube and said at least one tuning tube are integrally formed.

28. An outboard motor engine in accordance with Claim 27 wherein said air inlet tube and said at least one tuning tube comprise an air intake manifold.

29. An outboard motor engine in accordance with Claim 21 further comprising a motor cover, said air intake silencer attached to said motor cover.

30. An outboard motor engine in accordance with Claim 29 wherein said air intake silencer is integrally formed with said cover.